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### (54) **MOTOR FITTED WITH WORM REDUCTION GEAR**

#### (57) Abstract:

**PURPOSE:** To enable a worm to be designed without being influenced by the diameter of a motor shaft by forming an engaging part to engage with the end of the motor shaft, integrally at the end of a reduction gear, and forming a worm at the position different from the engaging part with the motor shaft.

**CONSTITUTION:** The cylindrical tip 24b of the motor shaft 24 is press-fitted in the engaging recess 34 being made integrally at the end on middle bearing 32 side of a speed reduction shaft. This engagement position is within the range D of the middle bearing 32 of the

speed reduction shaft, being different from the range E of a worm 31. Hereby, the diameter G of the tooth bottom 31a of the worm 31 can be designed regardless of the diameter F of the motor shaft 24. Moreover, the axis of the speed reduction shaft can be maintained easily at rotation by forming a top bearing 33 and a middle bearing 32 integrally at both ends in axial direction of the worm 31.

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